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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,085		06/24/2004	Karl Hellwig	P12169-US1	5874
27045	7590	07/15/2005		EXAM	INER
ERICSS	ON INC.		KARIKARI, KWASI		
6300 LEC	GACY DRI	VE			
M/S EVR C11				ART UNIT	PAPER NUMBER
PLANO, TX 75024			2686		
				DATE MAILED: 07/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)					
	10/500,085	HELLWIG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kwasi Karikari	2686					
- The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence address -					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO peniod for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a seply within the statutory minimum of the dwill apply and will expire SIX (6) MO ute, cause the application to become a	reply be timely filed irreply be timely filed irreply. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24	June 2004.						
	nis action is non-final.						
•••	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.						
Application Papers	•	•					
9) The specification is objected to by the Examination The drawing(s) filed on 24 June 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the	a)⊠ accepted or b)⊡ obj ne drawing(s) be held in abeya ection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).					
•	-	of Chief Action of John 1 10-102.					
Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a lie	ents have been received. Ints have been received in ionity documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 24 June 2004.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)					

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 24 June 2004 is in compliance with the provision of 37 CFR 1.97, has been considered by the Examiner, and made of record in the application file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10 and 12-17 are rejected under U.S.C. 103(e) as being unpatentable over Applicant's Admitted Prior Art (Fig. 3, " Description of Prior Art")

Regarding **claim 1**, the applicant's admitted prior art discloses a transcoding apparatus (Page 1, line 20) for use in a switching network of a telecommunication system [Page 1, line 0002], said transcoding apparatus including:

a plurality of transcoding units (Page 6, line 14) for source encoding and decoding data, for example speech data, wherein at least one transcoding unit of said plurality is capable of operating in tandem-free operation mode (Page 3, lines 31-34),

switching means (Page 1, line 37) adapted to switch data through said plurality of transcoding units;

a transcoder controller (Page 6, line 16) for controlling said switching means and said plurality of transcoding units, wherein said transcoder controller is adapted to instruct said switching means to insert one of said at least one transcoding unit into a data path associated with a connection between a mobile terminal of said telecommunication system and said switching network and; wherein said transcoder controller is adapted to instruct said one of said at least one transcoding unit to operate in tandem-free operation mode wherein said transcoder controller is adapted to instruct, during said connection, said switching means to eliminate said one of said at least one transcoding unit from said data path (both tandem-free and normal operation operations are implemented, see Page 2, lines 35-Page 3, line 5 and Page 4, lines 26-35).

Regarding **claim 2**, the applicant's admitted prior art discloses the transcoding apparatus according to claim 1, further including:

a plurality of TCME units (Page 5, line 23), for performing TFO-specific circuit wherein said transcoder controller is adapted to instruct said switching means to insert one of said plurality of TCME units into said data path, and wherein said transcoder controller is adapted to instruct, during said connection, said switching means to eliminate said one of said plurality of TCME units from said data path (TCME units to eliminate the 48kbps of decoded data and forward the original 16 kbps coded data, (see Page 5, lines 16-35 and Page 6, lines 25-29).

Regarding claim 3, the applicant's admitted prior art discloses the transcoding

apparatus according to claim 1, wherein said transcoder controller is adapted to determine whether or not a switching controller (Page 1, lines 25-27) of said switching network intends to add supplementary services during said connection (Page 2, lines 10-22 and Page 6, lines 11-24), and wherein said transcoder controller is adapted to instruct, during said connection, said switching means to eliminate said one of said at least one transcoding unit from said data path, if said switching controller does not intend to add supplementary services

(Page 1, lines 25-27 and Page 6, lines 11-24).

Regarding **claim 4**, the applicant's admitted prior art discloses the transcoding apparatus according to claim 3, wherein said transcoder controller is adapted to instruct, during said connection, said switching means to insert one of said plurality of transcoding units into said data path, if said switching controller intends to add supplementary services (Page 2, lines 10-22 and Page 6, lines 11-24).

Regarding **claim 5**, the applicant's admitted prior art discloses the transcoding apparatus claim 2, wherein said transcoder controller is adapted to determine whether or not a switching controller of said switching network intends to add supplementary services during said connection (Page 2, lines 1-22), and

wherein said transcoder controller is adapted to instruct, during said connection, said switching means to eliminate said one of said at least one transcoding unit as well as said one of said plurality of TCME units from said data path, if said switching controller does not intend to add supplementary services (Page 2, lines 1-9; Page 5, lines 18-31 and Page 6, lines 18-29).

Regarding **claim 6**, the applicant's admitted prior art discloses the transcoding apparatus claim 5, wherein said transcoder controller is adapted to instruct, during said connection, said switching means to insert one of said plurality of transcoding units as well as one of said plurality of TCME units into said data path, if said switching controller intends to add supplementary services (Pages 4, lines 26-31; Page 5, lines 18-31 and Page 6, lines 18-29).

Page 5

Regarding **claim 7**, the applicant's admitted prior art discloses the transcoding apparatus claim 6, wherein said transcoder controller is adapted to determine, based on an evaluation of locally available information, whether or not a switching controller of said switching network intends to add supplementary services (Page 2, lines 3-17) during said connection (transcoder controller allocates a TRAU to each connection data, see Page 6, lines 11-24).

Regarding **claim 8**, the applicant's admitted prior art discloses the transcoding apparatus claim 7, wherein said locally available information includes results of a supervision of inputs and outputs of said transcoding apparatus (Page 3, lines 15-30).

Regarding **claim 9**, the applicant's admitted prior art discloses the transcoding apparatus claim 7, wherein said locally available information includes results of a supervision of reports from said one of said at least one transcoding units and/or from said one of said plurality of TCME units (data received from TRAU will determine whether tandem-free operation is possible, Page 4, line 36-Page 5, line 7).

Regarding **claim 10**, the applicant's admitted prior art discloses the transcoding apparatus claim 7, wherein said locally available information includes information

received from said switching controller (switch controller adds supplementary services to the speech data, Page 2, lines 10-20).

Regarding claim 12, the applicant's admitted prior art discloses the transcoding apparatus claim 11, further including at least one protocol/interface conversion unit, for performing protocol conversion operations between different interfaces, wherein said transcoder controller is adapted to instruct, during said connection, said switching means to insert one of said at least one protocol/interface conversion unit into said data path (Tandem Free Operation protocol has been developed for GSM system, (see Page 4, lines 1-12 and Page 5, lines 11-24).

Regarding **claim 13**, the applicant's admitted prior art discloses the transcoding apparatus according to claim 12, further including at least one link supervision function unit for monitoring the TFO protocol wherein said transcoder controller is adapted to instruct, during said connection, said switching means to insert one of said at least one link supervision function unit into said data path (Page 4, line 36- Page 5, line 11).

Regarding **claim 14**, the applicant's admitted prior art discloses a TCME head apparatus for use in a switching network of a telecommunication system, said TCME head apparatus including:

a plurality of TCME units (Page 5, line 23) for performing TFO-specific circuit multiplication operations;

switching means (Page 2, line 3-7) adapted to switch data through said plurality of TCME units;

a TCME head controller (Page 6, lines 11-24) for controlling said switching means and said plurality of TCME units wherein said TCME head controller is adapted to instruct said switching means to insert one of said plurality of TCME units into a data path associated with a connection between a mobile terminal of said telecommunication system and said switching network, wherein said TCME head controller is adapted to instruct, during said connection, said switching means to eliminate said one of said plurality of TCME units from said data path (Page 2, line 35- Page 3, line 5; Page 3, lines 15-30 and Page 4, lines 26-35).

Regarding **claim 15**, the applicant's admitted prior art discloses a TCME head apparatus according to claim 14, wherein said TCME head controller is adapted to determine whether or not a switching controller of said switching network intends to add supplementary services during said connection (Page 1, line 3-9 and Page 5, lines 18-32), and

wherein said TCME head controller is adapted to instruct, during said connection, said switching means to eliminate said one of said plurality of TCME units from said data path, if said switching controller does not intend to add supplementary services (Page 2, lines 10-20 and Page 5, lines 18-32).

Regarding **claim 16**, the applicant's admitted prior art discloses a TCME head apparatus according to claim 15, wherein said TCME head controller is adapted to instruct, during said connection, said switching means to insert one of said plurality of TCME units into said data path, if said switching controller intends to add supplementary services (Page 1, line 36- Page 2, line 20 and Page 5, lines 18-32)

Regarding claim 17, the applicant's admitted prior art discloses a TCME head apparatus according claim 16, wherein said TCME head controller is adapted to determine, based on an evaluation of locally available information, whether or not a switching controller of said switching network intends to add supplementary services during said connection (TCME head controller allocates a TCME units to eliminate the 48kbps of decoded data and forward the original 16 kbps coded data, (see Page 6, lines 25-29 and Page 5, lines 18-32).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 11 is rejected under 35 U.S.C 103(a) as being unpatentable over Applicant's Admitted Prior Art as applied to claim 10 above, further in view of Yoon U.S (6,842,508).

Regarding **claim 11**, as applied to claim 10 above, the applicant's admitted prior art discloses the claimed limitations, but fails to teach said information received from said switching controller includes port address information.

Yoon teaches a voice mail system for a private switching system which has a voice and signal processing section that include a vocoder, a control section that exchange call messages and a communication control section (see col. 3, lines 50-64).

and Fig. 4, item 30a). Yoon further discloses a dual port RAM 30d that maintains transmission and/or reception, including a port address (see col. 6, lines 13-20).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Yoon and the applicant's admitted prior art for the benefit of achieving a system that compresses a voice data which can later be transmitted to call-connected opponent.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Aftelak (6,132,242) teaches a method of reverting to tandem operation between transcoders of a communication system

Sato et al., (20030032440) teaches a multipoint communication method and communication control device.

Mayer (6,556,844) teach a process for transmitting data in particular GSM data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwasi Karikari whose telephone number is 571-272-

2856. The examiner can normally be reached on M-F (8 am - 4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571- 272 5905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/500,085 Page 10

Art Unit: 2686

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CHARLES APPIAH
PRIMARY ENGANNER